	Application No.	Applicant(s)
Notice of Allowability	09/758,963	YOSHIDA ET AL.
	Examiner	Art Unit
	Dung (Michael) T Nguyen	2828
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is sub-	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to <u>03/03/04</u> .		
2. The allowed claim(s) is/are <u>31-35 and 39-80</u> .		
3. The drawings filed on 10 January 2001 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority unallocations. a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application cuments have been received i	No n this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give	·	
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or ir	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the he header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sun Paper No./M	ail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	<i>-</i>	mendment/Comment tatement of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

Claims 31-35 and 39-80 are allowed.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the claims define over the prior art. The prior art does not disclose or suggest inter alia the limitations of a fabrication method for a semiconductor laser apparatus to be operated at a desired optical output power level from a source of electric drive power, the desired optical output power level being greater than 50 mW, the semiconductor laser apparatus having a semiconductor laminated structure formed on a substrate, the laminated structure including a lower cladding layer, an upper cladding layer, an active layer disposed between the lower and upper cladding layer, a front facet to output the 1aser beam, a back facet, and a cavity 1 ength between the front and back facets, the active layer being configured to generate light such that the apparatus provides optical output power at the front facet in response to the source of electric drive power, the fabrication method comprising: acquiring a relationship of the electric drive power as a function of the cavity 1 ength and the optical output power level of the semiconductor laser apparatus, the relationship including cavity lengths greater than 1000 um and

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optical output power levels greater than 50 mW; determining a value of the cavity length from the acquired relationship such that the electric drive power is vicinal to a minimum for the desired optical output power level and such that the value of cavity length is greater than 1000 um, the desired optical power level being greater than 50 mW; forming a semiconductor laminated structure on a substrate, the step including the steps of forming a lower cladding layer over the substrate, forming an active layer over the lower cladding layer, and forming an upper cladding layer over the active. Layer; and forming the semiconductor laser apparatus from the semiconductor laminated structure such that it has a front facet, a back facet, and a cavity length between said facets, the cavity length having the value of the cavity length determined by the cavity length determining step.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone Application/Control Number: 09/758,963

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number is (571) 272-1949. The examiner can normally be reached on 8:30 -17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 306-5511 for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Nguyen (Michael) Dung

Don Wong_ Supervisory Patent Examiner Technology Center 2800